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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,851	10/30/2003	Thomas Peterffy	30894-101	9758
26486 BURNS & LEV	7590 10/02/200 VINSON, LLP		EXAMINER	
125 SUMMER	STREET		SHRESTHA, BIJENDRA K	
BOSTON, MA 02110			ART UNIT	PAPER NUMBER
		•	3691	
			. MAIL DATE	DELIVERY MODE
			10/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	ation No. Applicant(s)					
		10/697,85	51	PETERFFY ET AL.				
		Examiner		Art Unit				
		Bijendra K	. Shrestha	3691				
Period fo	- The MAILING DATE of this communica r Reply	ntion appears on the	cover sheet with th	e correspondence addr	ress			
WHIC - Exten after: - If NO - Failur Any n	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAI sions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communi period for reply is specified above, the maximum statute to reply within the set or extended period for reply will eply received by the Office later than three months after d patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF TH B7 CFR 1.136(a). In no eve cation. ory period will apply and wi l, by statute, cause the apply	IIS COMMUNICAT ent, however, may a reply b Il expire SIX (6) MONTHS f ication to become ABANDO	ION. e timely filed from the mailing date of this com DNED (35 U.S.C. § 133).				
Status								
1)[🖂	Responsive to communication(s) filed	on 30 October 200	3 .					
· -	This action is FINAL . 2b)⊠ This action is non-final.							
<i>'</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) 🖾	Claim(s) 1-20 is/are pending in the app	olication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	☐ Claim(s) is/are allowed.							
6)⊠	☐ Claim(s) <u>1-20</u> is/are rejected.							
7)	<u> </u>							
8)[Claim(s) are subject to restriction	n and/or election r	equirement.					
Applicati	on Papers							
9)[The specification is objected to by the E	Examiner.	•					
10)🖾	The drawing(s) filed on <u>30 October 200</u>	<u>3</u> is/are: a)⊠ acce	epted or b)□ objec	ted to by the Examiner	•			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
- S	ee the attached detailed Office action f	for a list of the certi	tied copies not rece	eivea.				
Attachment	•		_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.								
	e of Draπsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO/SB/08)	7-9 4 0)	5) D Notice of Inform	al Patent Application				
Paper No(s)/Mail Date <u>10/30/2003 and 09/06/2005</u> . 6) Other:								

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DETAILED ACTION

Priority

1. Acknowledgement is made of applicant's claim for priority to Provisional Application 60/422,408 filed on 10/30/2002 under 35 U.S.C. 119(e).

Claim Objections

2. Claim 10 rejected as claim recitation contains typo error with words "an order" repeated. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being unpatentable by Madoff et al., U.S. Patent No. 7,162,448 (reference A in attached PTO-892).
- 5. As per claim 1 and 7, Madoff et al. teach a processor for electronic trading of financial instruments (see Fig. 1, Sever (21)) comprising:

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(a) a receiver for information messages from market participants that bid for purchase or offer for sale of a financial instrument (see Fig. 1, Order Entry Side (12) and Order Response Side (14); column 3, lines 44-52), said receiver time-stamping received information messages (see Fig. 11, Time Stamp (132); column 1, lines 64-65)

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- (b) an electronic order book (see Fig. 1; column 4, lines 5-12; where order and response entry is stored in the sever memory which Examiner interprets as an electronic order book);
- (c) an updater communicating with said receiver and said electronic order book for qualifying and parsing price, size and time-stamp bid or offer data from information messages received on said receiver and entering said parsed data on said electronic order book with priority tracked by instrument in price and time-stamp of a received and qualified message (see Fig. 2, Order (30); column5, lines 26-42);
- (d) a transmitter communicating with said electronic order book for display to market participants anonymous data entered on said electronic order book (see Fig. 9A-9C; column 7, lines 40-48);
 - (e) a price improvement period timer communicating with said updater
 - (i) initiated upon receipt by said receiver of an information message from a qualified market participant containing a bid or offer at or better than a preset price improvement over the best bid or offer prevailing across multiple markets for a particular instrument (see Fig. 2; column 5, lines 53-67 to column 6, lines 1-3) and

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(ii) terminated upon an elapsing of a preset price improvement period time less than a minute and commensurate with market risk (see column 6, lines 13-17); and

- (f) a transaction executor communicating with said price improvement period timer and said electronic order book for allocating and executing upon said termination matches of bids or offers for said particular instrument, data for which are entered on said electronic order book, against market offers or bids in said order, subject to a partial time priority for said qualified market participant, and updating said electronic order book accordingly (see Fig. 2 to Fig. 8)).
- 6. As per claim 2, Madoff et al. teach claim 1 as described above. Madoff et al further teach the processor wherein

said best bid or offer prevailing across multiple markets is the best bid or offer on a national market (see Fig. 1; Fig. 3, column 6, lines 49-66).

7. As per claim 3, Madoff et al. teach claim 2 as described above. Madoff et al further teach the processor wherein

said preset price improvement and increments in subsequent bids or offers during said price improvement are finer increments than those reported for best bids and offers on said national market (see Fig. 8).

8. As per claim 4, Madoff et al. teach claim 2 as described above. Madoff et al further teach the processor wherein

said preset price improvement period is three seconds (see column 4, lines 55-65).

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9. As per claim 5 and 8, Madoff et al teach the processor wherein said qualified market participant is a non-market-maker broker-dealer (see column 9, lines 47-48) and said qualified market participant receives time priority for forty percent by size of any remaining allocation at said qualified market participant's best price (see column 9, lines 26-46).

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- 10. As per claim 6 and 9, Madoff et al teach the processor wherein a market maker bidding or offering at the national best bid or offer at the commencement of said price improvement period receives time priority for one-third by size of any remaining allocation at said qualified market participant's best price after said qualified market participant's allocation at that or better price (see column 9, lines 25-46).
- 11. As per claim 10, Madoff et al. teach a computer program product for conducting a fast price improvement auction of financial instruments traded across national markets (see Fig. 1), said computer program product residing on a computer-readable medium comprising instructions for causing a computer to:

receive an order an order specifying the commencement of a price-improvement auction with better price than the prevailing price across national markets, commence and conduct an auction with a time duration of greater than zero and less than ten seconds where bids or offers are matched with contra market orders or bids according to an allocation at the best price first and within each price level by time of receipt, with a share of any allocation at the best price level received from a market participant

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commencing said price-improvement auction reserved to said market participant (see Fig.2; column 5, lines 27-42, 53-62).

- 12. As per claim 11 and 17, Madoff et al. teach a process for electronic trading of financial instruments (equity option contract) comprising the steps of:
- (a) receiving an information message that bids for purchase of or offers for sale a financial instrument; (b) entering on an electronic order book data parsed from said information message where said information message bids for purchase of or offers for sale a financial instrument at price at or better than a preset price improvement over the best national bid or offer; (c) initiating a price improvement period timer upon receipt of the first said bid or offer at or better than said preset price improvement (see Fig. 2; column 5, lines 26-34);
- (d) receiving and information messages and entering according to steps (a) and (b) until the elapsing of a preset price improvement period time (see Fig. 2; column 5, lines 43-59);
- (e) allocating and executing, upon the said elapsing of said preset price improvement period time, matches of bids or offers for a particular equity option contract, data for which are entered on said electronic order book, in order of best bids or offers and earliest time of receipt at each price level, against market offers or bids, subject to a partial time priority for a qualified market participant from whom was received said information message initiating said price improvement period timer (see Fig. 2; column 5, lines 59-67 to column 6, lines 1-12).

- 13. As per claim 12, Madoff et al. teach claim 11 as described above. Claim 12 is rejected under same rational as claim 2 described above.
- 14. As per claim 13, Madoff et al. teach claim 12 as described above. Claim 13 is rejected under same rational as claim 3 described above.
- 15. As per claim 14, Madoff et al. teach claim 13 as described above. Claim 14 is rejected under same rational as claim 4 described above.
- 16. Claims 15 and 18 are rejected under same rational as claim 5 described above.
- 17. Claim 16 and 19 are rejected under same rational as claim 6 described above.
- 18. As per claim 20, Madoff et al. teach a method for conducting a fast price improvement auction of financial instruments traded across national markets (see Fig. 1) comprising the steps of:

receiving an order from a qualified market participant specifying the commencement of a price-improvement auction with better price than the prevailing price across national markets (see Fig. 2; column 5, lines 27-36)

commencing an auction with a time duration of greater than zero and less than ten seconds in which improved bids or offers are received (see Fig. 2; column 5, lines 32-42); and

at the termination of said auction, mating with contra market orders or bids according to an allocation at the best price first and within each price level by time of receipt, with a share of any allocation remaining at the best price level of said market

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participant commencing said price-improvement auction reserved to said market participant (see Fig. 2; column 5, lines 53-67 to column 6, lines 1-12).

Conclusion

19. The prior art made of record and not relied upon is considered pertinent to applicant's disclosures. The following are pertinent to current invention, though not relied upon:

Allen et al.(U.S. Pub No. 2002/0138401) teach method and system for automatic execution of a securities transaction.

Gary (U.S. Patent No. 6,618,707) teaches automated exchange for trading derivative securities.

Keith (U.S. Pub No. 2001/0042040) teaches routing control for orders eligible for multiple markets.

Klein (U.S. Pub No. 2002/0194105) teaches process of and system for trading securities and option and markets related thereto.

Lutnick et al. (U.S. Patent No. 6,850,907) teach automated price improvement protocol processor.

Gamber et al. (U.S. Pub No. 2003/0177086) teach integrated order pre-matching system.

Madoff et al. (U.S. Patent No. 7,099,839) teach opening price process for trading system.

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Madoff et al. (U.S. Pub No. 2001/0044767) teach auction market with price improvement mechanism.

Rosenblatt et al. (U.S. Pub No. 2003/0120585) teach confidential electronic trading and matching system incorporating execution via an auction market.

Schmitz et al. (U.S. Pub No. 2003/0004858) teach automated execution system having participation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bijendra K. Shrestha whose telephone number is (571) 270-1374. The examiner can normally be reached on 7:00 AM-4:30 PM (Monday-Friday); 2nd Friday OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Kalinowski can be reached on (571) 272-6771. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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